



**Election Systems  
& Software**

MAINTAINING VOTER CONFIDENCE.  
ENHANCING THE VOTING EXPERIENCE.

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11208 John Galt Boulevard • Omaha, NE 68137 USA

Phone: 402.593.0101 • Toll-Free: 1.800.247.8683 • Fax: 402.593.8107

www.essvote.com

September 19, 2008

The Honorable Lowell Finley  
Deputy Secretary of State for Voting Systems Technology & Policy  
Office of the Secretary of State  
1500 11<sup>th</sup> Street, 6<sup>th</sup> Floor  
Sacramento, CA 95814

**RE: ES&S AutoMARK Hardware Component Change Notification**

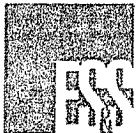
Dear Deputy Secretary Finley,

Pursuant to California Elections Code 19213, Election Systems & Software, Inc. ("ES&S") hereby provides notice to the Secretary of State of certain modifications made to the hardware on the ES&S AutoMARK Voter Assist Terminal previously certified in the State on June 30<sup>th</sup> 2008. The modifications are generally required due to end of life (EOL) components, the incorporation of various environmentally friendly components as suppliers come into compliance with the Directive on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment or "RoHS", and various other minor modifications to aid in the manufacture and maintenance of the system.

Attached is a list of Engineering Change Requests (ECR's) and Engineering Change Orders (ECO's) that have been previously submitted to SysTest Labs for review, testing, and approval. The listed ECR's were submitted by AutoMARK Technical Systems, Inc. (ATS) prior to their acquisition by ES&S earlier this year. It was ATS' practice to submit a request for change that resulted in an engineering change order upon approval. Each of these change orders have been reviewed, tested (where required), and approved by SysTest Labs for incorporation into the manufacturing process.

The hardware changes to the AutoMARK include a new internal compact flash and a new processor to the previous 2.0 Single Board Computer (SBC) that was part of the January 2008 functional testing. These hardware changes on the SBC necessitate a new boot loader and a higher version of the operating system. ECR #329 (Intel processor step change) and ECR#330 (Intel flash memory step change) result in 2.5 SBC. The 2.0 SBC worked with the AutoMARK COTS operating system WinCE 5.00.14. The 2.5 SBC must operate with a version of Windows operating system WinCE 5.00.17 or higher for compatibility. Both Windows CE and the boot loader are COTS software components on the VAT and are fully compatible with VAT firmware v. 1.1.2258 that is currently certified in the State of California. New units being manufactured for California will have WinCE 5.00.19.

In addition to the ECO change release process, ES&S requested SysTest Labs to perform operational verification testing of the AutoMARK. SysTest Labs performed functional equivalence compatibility testing of the Windows CE 5.00.19 operating system, with the 2.5 SBC board on AutoMARK VAT versions: 1.0.168, 1.1.2258, and 1.3.2904. I have enclosed a copy of the report for your review.



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It is ES&S' current intention to fulfill any future orders and to use the new components in warranty and maintenance work for our California customers. Prior to the future sales or any maintenance work on existing units, we respectfully request your offices' written determination that the hardware modifications described herein do not impair the AutoMARK's accuracy and efficiency sufficient to require a reexamination and reapproval and as such may be used in the State of California.

If you have any questions or need additional information, please feel free to contact me directly. I can be reached at (402) 938-1399.

Sincerely,

Mark A. Manganaro  
California State Certification Manager

cc: Steve M. Pearson, ES&S Vice President, Certification  
Jim Schmidt, ES&S Vice President, Manufacturing  
Janet Buchanan, ES&S Director Account Services  
Bryan Hoffman, ES&S Account Services Manager

Attachments: **Folder01\_ Cover letter (On CD)-** ESS AutoMARK HW Change Notice Ltr  
9\_19\_08  
**Folder 02\_ECO List (On CD)-** ES&S AutoMARK ECR/ECO Change List,  
July 22, 2008  
**Folder 03\_ECOs (On CD) -** Approved ECOs from SysTest and test reports  
**Folder04\_Systest Report (On CD)-** ES&S AutoMARK VAT Ballot Marking  
Device System Operational Review Report